

# Recovery Plan Action Status

Plan Name: Recovery Plan for Liatris helleri Heller's Blazing Star

Plan Status: Final Revision 1

Plan Date: 28-Jan-00

Lead Agency: USFWS

Lead Office: Asheville Ecological Services Field Office

(828)  
258-3939 )

| Species                                   | Action Priority # | Action # | Action Description  | Action Status   | Est. Initiation Date | Est. Completion Date | Responsible Parties  | Work Type                  | Labor Type                  | Action Comments |
|---|-------------------|----------|---|-----------------|----------------------|----------------------|--|----------------------------|-----------------------------|-----------------|
| Heller's blazingstar<br>(Liatris helleri) | 1                 | 1        | Develop interim research and management plans in conjunction with NPS, FS, and private landowners | Ongoing Current | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |                 |

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| Heller's blazingstar<br>(Liatris helleri) | 2                 | 10       | Implement appropriate management techniques as they are developed from previous tasks | Ongoing Current |                      |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |                 |
| Heller's blazingstar<br>(Liatris helleri) | 3                 | 11       | Search for additional populations   | Not Started     |                      |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |                 |

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| Heller's blazingstar<br>(Liatris helleri) | 3                 | 12       | Investigate the potential effects of acid precipitation or other atmospheric pollution                   | Not Started     |                      |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |                 |
| Heller's blazingstar<br>(Liatris helleri) | 3                 | 13       | Develop techniques for reestablishing populations in suitable habitat within the species' historic range | Ongoing Current |                      |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |                 |

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| Heller's blazingstar<br>(Liatris helleri) | 3                 | 14       | Evaluate potential reintroduction sites, develop a list of suitable areas, and implement reintroduction | Not Started         |                      |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |                 |
| Heller's blazingstar<br>(Liatris helleri) | 3                 | 15       | Develop a cultivated source of plants and provide for long-term seed storage                            | Ongoing Not Current | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |                 |

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| Heller's blazingstar<br>(Liatris helleri) | 3                 | 16       | Prepare and distribute news releases and informational brochures and post information on the Internet | Ongoing Current     | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |                 |
| Heller's blazingstar<br>(Liatris helleri) | 3                 | 17       | Prepare articles for popular and scientific publications  | Ongoing Not Current | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |                 |

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| Heller's blazingstar<br>(Liatris helleri) | 3                 | 18       | Annually assess the success of recovery efforts for the species | Ongoing Current | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |                 |
| Heller's blazingstar<br>(Liatris helleri) | 1                 | 2        | Determine habitat protection priorities                         | Not Started     |                      |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |                 |

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| Heller's blazingstar<br>(Liatris helleri) | 1                 | 3        | Evaluate habitat protection alternatives | Ongoing Current | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |                 |
| Heller's blazingstar<br>(Liatris helleri) | 1                 | 4        | Enforce laws protecting the species      | Ongoing Current | Prior to FY 1995     |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |                 |

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| Heller's blazingstar<br>(Liatris helleri) | 2                 | 5        | Determine population size and stage class distribution for all populations | Ongoing Current | FY 2000 - FY 2004    |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected | [CLW 8/6/2010: Ongoing for one of 11 extant populations, managed by NPS/BRP] |
| Heller's blazingstar<br>(Liatris helleri) | 2                 | 6        | Study abiotic and biotic features of the species' habitat                  | Not Started     |                      |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |  |



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| Heller's blazingstar<br>(Liatris helleri) | 2                 | 7        | Conduct long-term demographic studies                  | Ongoing Current | FY 2000 - FY 2004    |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected | [CLW 8/5/2010: Ongoing for one of 11 extant populations.]   |
| Heller's blazingstar<br>(Liatris helleri) | 2                 | 8        | Determine the effects of past and ongoing disturbances | Ongoing Current |                      |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected | [CLW, 8/2010: Poaching was discovered at two populations in 2009 field season; the effect of this disturbance will be assessed in follow-up monitoring at these two sites.] |

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| Heller's blazingstar<br>(Liatris helleri) | 2                 | 9        | Define the prerequisites for self-sustaining populations and develop appropriate habitat management guidelines based on the data obtained from Tasks 2.2 through 2.5 | Not Started   |                      |                      | U.S. Fish and Wildlife Service, Ecological Services Division, National Park Service, U.S. Forest Service, USFWS Regional Office 4 - Atlanta, State Plant Conservation Agencies of participating states (North Carolina these are the Plant Conservation Program [North Carolina Department of Agriculture]; and the Natural Heritage Program [North Carolina Department of Natural Resources and Community Development]) | Work type not yet selected | Labor type not yet selected |                 |